

RECEIVED

State of Illinois

Dept. & Div. ILL EPA-MPCP Inspector Larry L. Minton Date Feb 9 1986 Inspected 2/5/86Mine Name FIDELITY # 11 Mine Company FREEMAN MINE RECLAMATION CONTROL PROGRAMIEPA Permit No. 140000302 M & M Permit No. _____ County PERRYGeneral Location 5 MILE WEST OF DUQUOINArrival Time 11 AM Weather Conditions WARM, WET, CLOUDY, WINDY

RECLAMATION TYPE (Check Appropriate Type)

Mine Includes Prime Land Yes/ NoSteep Slope Rule Applies Yes/ NoCoal Preparation Yes/ NoNot Applicable —Reason for Visit: ROUTINE

Persons Contacted:

BILL SMITH - PERMIT MGRGLEN HAMILTON - RECLAM. SUPPARAMETER CHECKLIST

1. Availability of: A — permits B — Plans
2. Imminent Danger to Public Health and Safety —
3. Significant Imminent Environmental Harm —
4. Signs and Markers: A. mine entrance B. perimeter C. blasting D. topsoil E. perimeter observance 1. 100' zone 2. 300' zone F. permit area correlation G. not investigated H. not applicable
5. Disposal Spoil and Waste Material Outside Pit or Direct Cast Site: (A) gob disposal — site capacity 2. covering 3. vegetation B. within permit area C. site approved D. slope of site E. steep slope rules F. valley fill or head of hollow fills: 1. permit area 2. location near ridge top 3. fill design 4. fill construction 5. steep slope rules 6. under drains 7. lateral drains 8. controlled placement 9. engineer inspection G. not investigated H. not applicable
6. Soil Handling: A. removal before other disturbance B. storage C. protection D. thickness E. root medium F. other overburden G. toxic material handling H. root medium satisfactory for top soil replacement (slope, thickness, texture) I. topsoil replaced J. grading current K. rills and gullies L. erosion control systems M. timely revegetation and mulching (N) not investigated O. not applicable
7. Prime Land: A. prime land determination B. soil horizon removal prior to other disturbance C. thickness removed D. approved horizon storage E. protection of stockpiles F. horizon replacement and thickness G. protection of replaced horizons H. grade (I) not investigated J. not applicable
8. General Water Quality and Hydrology: (A) waterways 1. unaffected area drainage diverted 2. affected area drainage ditches and berms 3. system maintenance B. grading C. vegetation D. toxic material E. horizontal boreholes (F) sediment ponds: 1. size 2. structure 3. spillway 4. clean out 5. over 20' high or over 20 acre feet storage (— yes/— no) 6. seepage 7. structural weakness 8. discharge structure 9. chemical treatment system 9. (a). permitted — yes/— no (G) discharge water quality H. buffer zone (100') observance I. zone markers (J) NPDES permits required ✓ yes/— no K. water quality L. not investigated M. not applicable

☐ TEMPORARY REPORT☒ FINAL REPORT

Mine Name FIDELITY #11

9. Stream Channel or Other Water Diversion: (A) temporary or permanent B. size adequacy C. stability D. gradient E. grade stability F. suspended solids G. sediment control H. channel design I. erosion control structures J. fish and wildlife protection K. vegetation L. removal of temporary structures M. structure removal procedures N. not investigated O. not applicable
10. Road Hydrology: A. culverts (B) ditches C. location choice D. grade E. stream closeness F. ditch relief drains G. outslope drains H. construction material toxic/ non-toxic I. maintenance J. railroad spur hydrology K. vegetation L. not investigated M. not applicable
11. Impoundment Structures: A. M.H.S.A. construction observance B. coal waste in structure C. freeboard (D) stability E. seepage F. engineer inspection G. dam marker H. maintenance I. ditch and spillways J. changes in geometry of structure K. not investigated L. not applicable
12. Steep Slope Procedure: A. spoil on outslope B. debris C. highwall removal D. disturbance above highwall E. excess spoil F. instability of spoil and woody material (G) not investigated H. not applicable
13. Preparation Facility (includes crushing and screening): A. water circuit 1. open system 2. closed system 3. no water circuit (B) slurry impoundment 1. berm stability a.) seepage b.) vegetative cover c.) freeboard 2. acid producing potential C. not investigated D. not applicable
14. Domestic Wastewater Treatment Facilities: A. type of system 1. activated sludge package plant 2. lagoon - sandfilters 3. septic tank w/sand filters 4. other B. sand filter maintenance 1. weeds 2. raking 3. sand replacement C. chlorination D. certified operator (E) not investigated F. not applicable

LEGEND: O = parameter inspected: \emptyset = comment or question on the parameter

NOTE: Items circled were considered during this investigation. If nothing under a major item was investigated, circle either "not investigated" or "not applicable". Violation means violation or apparent violation.

 NO VIOLATIONS FOUND✓ SEE ATTACHMENT

Indicated Parameter

Comments or Action Taken

Check Column

No.	Vio- lation	Non-Vio- lation
Gen can		✓
8F		✓
8F8		✓
85		✓

ATTACHMENT

Freeman United Coal Company
Fidelity #11
February 5, 1986

GENERAL COMMENTS: During the investigation, I spoke with Bill Smith, Permit Manager, in regard to the recently submitted 427 acre incidental boundary change. I explained to Mr. Smith that I had briefly viewed the application and was unsure as to how the drainage worked and if Youngs Creek would be replaced. Mr. Smith said that according to his calculations, the drainage area of Youngs Creek indicated it to be too small to be an intermittent stream which must be re-established during reclamation. Mr. Smith also said that due to recent information received, the proposed final cut pit will not be located as indicated in the submittal. Apparently the west end of the active pit will swing down toward the south and mining activities will then progress eastward until the coal gets too deep. The west to east movement of the active pit will not leave an east-west elongated final cut pit as was proposed, therefore a change will be needed in the final reclamation plan.

Mr. Smith also reviewed the proposed surface runoff water system in the 427 acre area. The drainage system will be combined with that of the main site with a new discharge outfall 006. The proposed direction of flow will be reversed in sedimentation pond 005 and will flow toward the north then toward the west and into an impoundment which will discharge into Youngs Creek. After discussing the proposed drainage plan with Mr. Smith I suggested an alternate route for the drainage control system and explained that suspended solids could become a factor at proposed discharge 006 if open waterways are located adjacent to heavily used haul roads. Apparently, Mr. Smith observed some merit with my suggestion and anticipates submitting an operations change modification that will incorporate my suggested alternate drainage route. Attached is a handdrawn sketch of the proposed drainage plan and the alternate drainage plan that I suggested.

8F: I observed the two site sedimentation ponds both of which were discharging during this visit. All of the discharge waters appeared clear, therefore no samples were obtained.

8F8: The rip-rapped channel downslope from discharge 005 appears well stabilized and shows no sign of deterioration.

8J: This site is permitted under NPDES Permit IL0000302. Note: All DMR's have been submitted in accordance with NPDES permit conditions.

Gary L. Minton

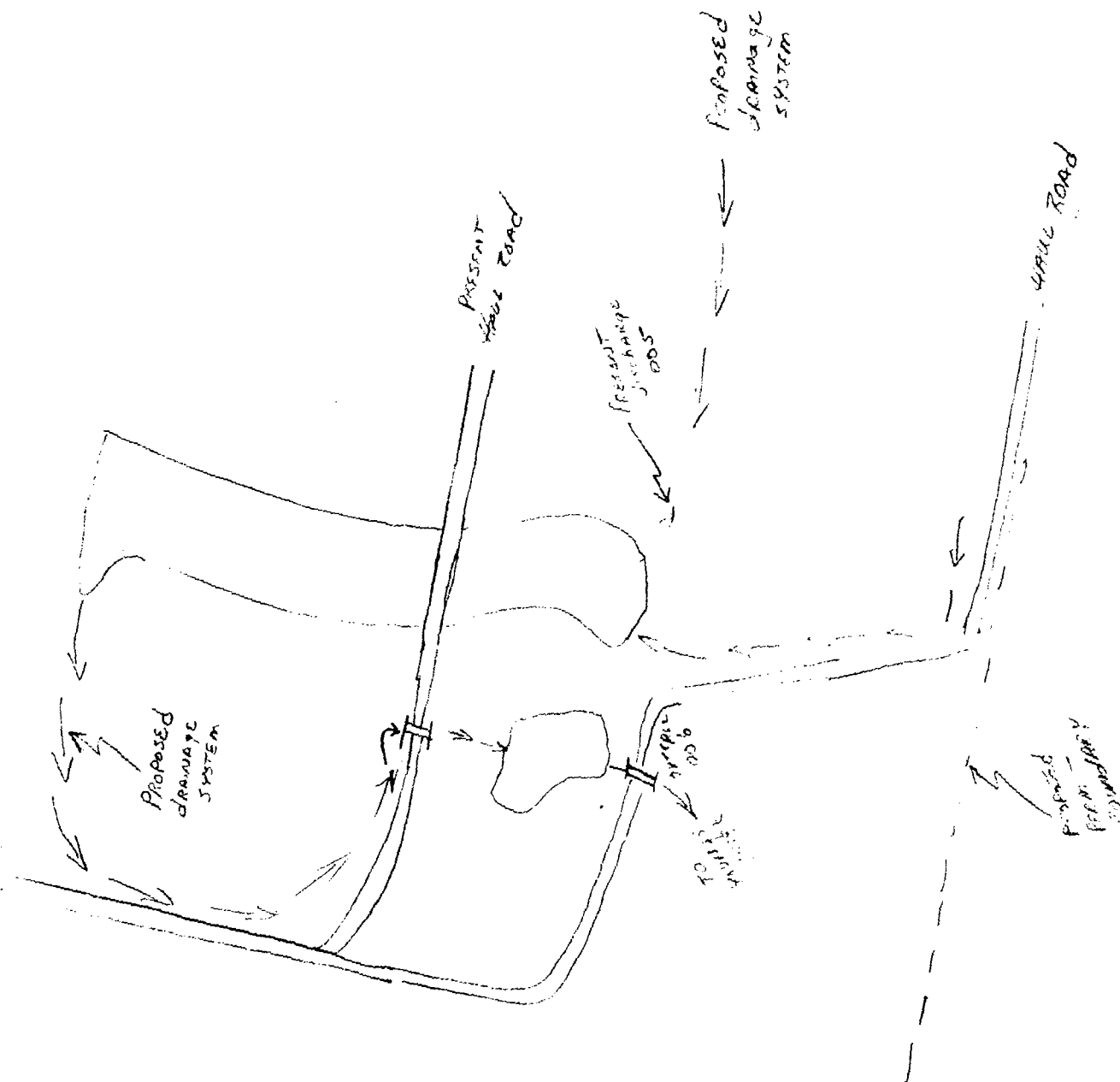
Gary L. Minton
Environmental Protection Specialist

GLM:br/0101M/02/14/86

cc: MPCP/Records Unit
IDMM

Freeman Limited
 114 Humber
 Station - 5002005
 2.5 JO 1000000

DRAINAGE PLAN PROPOSAL IN
 THE 12/5/85 SUBMITTAL



Freeman United
Fidelity #11
SOUTHWEST SECTION OF SITE

DRAINAGE PLAN SUGGESTED DURING
THE 2/5/86 DISCUSSION

